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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,327	01/27/2006	Kenji Ogawa	MAT-8808US	3515
52473 D A TNIED DD ES	7590 02/20/2008		EXAMINER	
RATNERPRESTIA P.O. BOX 980			MCCOMMAS, STUART S	
VALLEY FOR	GE, PA 19482		ART UNIT PAPER NUMBER	
			2629	
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			02/20/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

,	Application No.	Applicant(s)			
	10/566,327	OGAWA ET AL			
Office Action Summary	Examiner	Art Unit			
	Stuart McCommas	2629			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be till will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on <u>27 January 2006</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
4) ☐ Claim(s) 1 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. So ion is required if the drawing(s) is ol	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 1/27/2006, 11/06/2007.	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura (United States Patent Application Publication 2002/0021264), hereinafter referenced as Nakamura, in view of Kim et al. (United States Patent 7,109,951), hereinafter referenced as Kim.

Regarding claim 1, Nakamura discloses a method of driving a plasma display panel 15, the plasma display panel including discharge cells 16, each discharge cell formed at an intersection of a scan electrode and a sustain electrode, and a data electrode (figure 3), the method comprising:

dividing one field period into a plurality of sub-fields, each sub-field having an initializing or priming discharge period with an erasure period, a writing period, and sustaining period (figure 9);

performing in the priming discharge period and in the erasure period either an all cell initializing operation or a selective initializing operation, where the all-cell initializing operation causes initializing discharge in all the discharge cells for displaying an image (paragraphs 58-63; figure 8; figure 9) and the selective initializing operation selectively

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causes initializing discharge using the erasure pulse Pe only in the discharge cells

where sustaining pulses and sustaining discharge occurred in the previous sub-field

(paragraph 63; figure 9). Further Nakamura discloses that each of the initializing

periods for performing the all-cell initializing operation has a former half part and a latter

half part of the priming discharge period (figure 9), where in the former half part there is

application of an ascending ramp waveform voltage Pp to the scan electrodes that

causes a first initializing discharge using the scan electrodes as anodes and the sustain

electrodes and data electrodes as cathodes (paragraph 60; figure 9) and where in the

latter half part, application of a descending ramp waveform voltage Ppe to the scan

electrodes causes a second initializing discharge using the scan electrodes as the

cathodes and the sustain electrodes and data electrodes as the anodes (paragraph 60;

figure 9), however Nakamura fails to disclose an abnormal discharge part and in the

abnormal charge erasing part, application of a rectangular waveform voltage to the scan

electrodes causes self-erasing discharge in the discharge cells having excessive wall

charge accumulated therein, however the examiner maintains that it was well known in

the art to provide an abnormal discharge part and in the abnormal charge erasing part,

application of a rectangular waveform voltage to the scan electrodes causes self-

erasing discharge in the discharge cells having excessive wall charge accumulated

therein, as taught by Kim.

In a similar field of invention Kim discloses a method and apparatus for driving

plasma display panel. In addition, Kim discloses a wall charge control period (figure 8)

where in the wall charge control period there is application of a rectangular waveform

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voltage Pp to the scan electrodes which causes a self erasing discharge in the discharge cells having excessive wall charge accumulated therein where the charges are controlled into desired polarities to prevent a misfire (column 8 lines 64-67 and in column 9 lines 1-25; figure 8).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Nakamura by specifically providing an abnormal discharge part and in the abnormal charge erasing part, application of a rectangular waveform voltage to the scan electrodes causes self-erasing discharge in the discharge cells having excessive wall charge accumulated therein for the purpose of allowing excess charge to be controlled and erased to avoid misfires in a plasma display panel.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stuart McCommas whose telephone number is (571)270-3568. The examiner can normally be reached on Monday-Friday 9 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexander Eisen can be reached on (571)272-7687. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Stuart McCommas Examiner Art Unit 2629

SSM

ALEXANDER EISEN
SUPERVISORY PATENT EXAMINER